



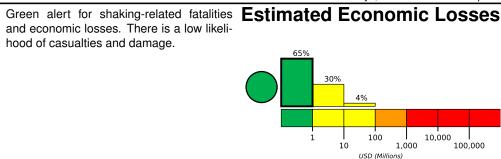


# **PAGER** Version 5

Created: 4 days, 21 hours after earthquake

**M 4.1, 29km WSW of Big Lake, Alaska** Origin Time: 2019-12-16 03:30:27 UTC (Sun 18:30:27 local) Location: 61.4108° N 150.4387° W Depth: 62.0 km FOR TSUNAMI INFORMATION, SEE: tsunami.gov

**Estimated Fatalities** 69% 10,000 100 1,000 100,000



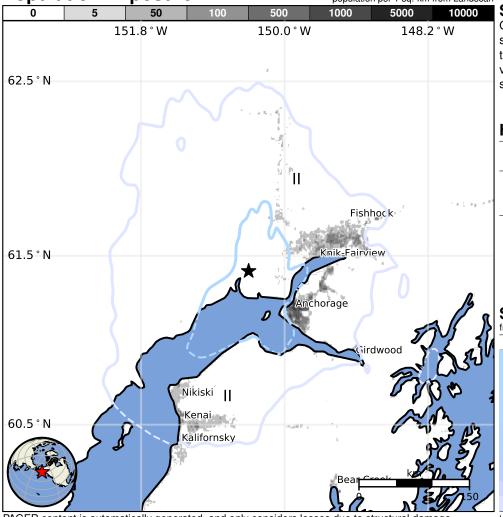
**Estimated Population Exposed to Earthquake Shaking** 

			•							
ESTIMATED POPULATION EXPOSURE (k=x1000)		10k*	433k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

## Population Exposure

population per 1 sq. km from Landscan



## PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

#### **Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

### **Historical Earthquakes**

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2002-11-03	274	7.9	V(36k)	0
1964-03-28	156	9.2	VIII(24k)	_
1964-03-28	156	9.2	VIII(24k)	0

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

# **Selected City Exposure**

from GeoNames.org

MMI	City	Population
Ш	Big Lake	3k
II	Anchorage	292k
II	Willow	2k
II	Wasilla	8k
II	Tanaina	8k
II	Meadow Lakes	8k
II	Knik-Fairview	15k
II	Lakes	8k
II	Eagle River	25k
II	Kenai	7k
II	Kalifornsky	8k

bold cities appear on map.

(k = x1000)